

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Currently amended): A tuning circuit having an amplitude-varying function comprising:  
a coil;  
a capacitor; and  
a resistance-adjusting element connected in parallel to said coil and said capacitor for  
varying resistance at time of resonance of said tuning circuit, wherein  
an amplitude of an output signal of said tuning circuit is varied by varying said resistance  
with said resistance-adjusting element based on the amplitude of the output signal of said tuning  
circuit.

Claim 2 (Original): The tuning circuit having an amplitude-varying function according to claim 1,  
wherein  
said resistance-adjusting element comprises a transistor, said resistance-adjusting element  
varying a voltage applied to a control electrode of said transistor in order to vary said resistance.

Claim 3 (Original): The tuning circuit having an amplitude-varying function according to claim 1,  
wherein  
said resistance-adjusting element comprises a transistor, said resistance-adjusting element  
switching ON and OFF said transistor in order to vary said resistance.

Claim 4 (Original): The tuning circuit having an amplitude-varying function according to claim 3,  
further comprising an automatic adjustment circuit system that includes:

a comparator that varies an output when said amplitude of said output signal of said tuning circuit exceeds an automatic adjustment-use reference amplitude level; and

a transistor drive-use digital circuit that outputs, in response to said variance in said output of said comparator, a digital drive signal for varying said voltage applied to said control electrode of said transistor.

Claim 5 (Original): The tuning circuit having an amplitude-varying function according to claim 1, wherein

a predetermined reference voltage is applied to respective ends of said coil and of said capacitor making up said tuning circuit, and wherein

an alternating current signal resonated by said tuning circuit is outputted from other ends of said coil and of said capacitor.

Claim 6 (Original): The tuning circuit having an amplitude-varying function according to claim 1, wherein

respective ends of said coil and of said capacitor making up said tuning circuit are grounded, and wherein

an alternating current signal resonated by said tuning circuit is outputted from other ends of said coil and of said capacitor.